

Public Page
Integrity Management for Wrinklebends and Buckles #132
Contract Number: DTRS56005-T-0003
Quarterly Report
July 1, 2007 – September 30, 2007
Battelle

In this period, the 80% SMYS pressure effect on the wrinklebend criteria was evaluated, considering (a) extend the wrinklebend criteria to cover a maximum pressure cycle of 80%, and (b) develop field verification results to establish the validity of the proposed wrinklebend criteria. The results indicate that in comparison to a maximum pressure of 72% SMYS, the fatigue damage increases and the service life decreases for a wrinkle when the maximum cyclic pressure is 80% SMYS. To date, all results from field samples strongly support the proposed wrinklebend criteria.